

WHAT IS CLAIMED IS:

1. A priming assembly for a drug delivery device comprising:
 - a hub;
 - a base connected to the hub and moveable relative to the hub between a first position and a second position, the base defining a passageway;
 - a cap defining an interior chamber and a passageway in fluid communication with the interior chamber; and
 - a needle connected to the hub and positioned within the interior chamber of the cap, wherein the passageway of the base is in fluid communication with the passageway of the cap when the base is in the first position, and wherein the passageway of the base is isolated from the passageway of the cap when the base is in the second position.
2. The assembly of claim 1, wherein the cap and the base form a sealed interface between the cap and the base.
3. The assembly of claim 1, wherein the cap includes a closed first end and an open second end, the open second end secured to the hub.
4. The assembly of claim 3, wherein the cap comprises an elastomeric material.
5. The assembly of claim 3, wherein the cap is configured to deform from a first position where an end of the needle is positioned within the cap and a second position where the end of the needle is positioned outside of the cap.
6. The assembly of claim 1, wherein one of the hub and the base defines a slot and the other of the hub and the base comprises a projection received within the slot, the slot having a first end and a second end, and wherein, when the projection is at the first end of the slot, the base is in the first position, and, when the projection is at the second end of the slot, the base is in the second position.

7. The assembly of claim 1, further comprising a priming fluid tube in fluid communication with the passageway of the base.

8. The assembly of claim 7, further comprising a delivery tube connected to the hub and in fluid communication with the needle.

9. A drug delivery device comprising:

a housing;

a cartridge received within the housing, the cartridge configured to receive a medicament;

a drive assembly received with the housing and configured to engage the cartridge and dispense medicament from the cartridge;

a needle actuator assembly received within the housing, the needle actuator assembly comprising a patient needle configured to pierce a user's skin; and

a priming system comprising:

a cartridge priming assembly comprising a hub, a base connected to the hub and moveable relative to the hub between a first position and a second position, a cap defining an interior chamber and a passageway in fluid communication with the interior chamber, and a needle connected to the hub and positioned within the interior chamber of the cap, the base defining a passageway;

a needle actuator priming assembly comprising a hub, a base connected to the hub and moveable relative to the hub between a first position and a second position, a cap defining an interior chamber and a passageway in fluid communication with the interior chamber, and a needle connected to the hub and positioned within the interior chamber of the cap, the base defining a passageway; and

a delivery tube in fluid communication with the hub of the cartridge priming assembly and the hub of the needle actuator priming assembly,

wherein the passageway of the base of the cartridge priming assembly is in fluid communication with the passageway of the cap of the cartridge priming assembly when the base is in the first position, and wherein the passageway of the base of the cartridge priming assembly is isolated from the passageway of the cap when the base is in the second position.

10. The device of claim 9, wherein the passageway of the base of the needle actuator priming assembly is in fluid communication with the passageway of the cap of the needle actuator priming assembly when the base is in the first position, and wherein the passageway of the base cartridge of the needle actuator priming assembly is isolated from the passageway of the cap when the base is in the second position.

11. The device of claim 9, further comprising an inflow tube in fluid communication with the passageway of the base of the cartridge priming assembly.

12. The device of claim 11, further comprising an outflow tube in fluid communication with the passageway of the base of the needle actuator priming assembly.

13. The device of claim 9, wherein the cap and the base of the cartridge priming assembly and the needle actuator priming assembly each form a sealed interface between the cap and the base.

14. The device of claim 9, wherein the caps of the cartridge priming assembly and the needle actuator priming assembly each include a closed first end and an open second end, the open second ends secured to the respective hubs.

15. The device of claim 14, wherein the caps of the cartridge priming assembly and the needle actuator priming assembly each comprise an elastomeric material.

16. The device of claim 14, wherein the caps of the cartridge priming assembly and the needle actuator priming assembly are each configured to deform from a first position where an end of the needle is positioned within the cap and a second position where the end of the needle is positioned outside of the cap.

17. The device of claim 9, wherein one of the hub and the base of the cartridge priming assembly defines a slot and the other of the hub and the base comprises a projection

received within the slot, the slot having a first end and a second end, and wherein, when the projection is at the first end of the slot, the base is in the first position, and, when the projection is at the second end of the slot, the base is in the second position.